ABSTRACT OF THE DISCLOSURE

A program, system and method for decoding a packed representation of multiple parses creates an unpacked forest to be read by a semantic interpretation module from a packed representation is provided. The packed representation includes at least one edgenode and each edgenode includes a substitution list. A current forest object is created and is replicated for each edgenode having a substitution list containing greater than one edgenode. Each of the copies of the current forest object are updated with one of the edgenodes from the substitution list. Each edgenode of the packed representation is traversed using a depth-first traversal.